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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: William L. Brenneman Docket: 102426-300  
Szuchain F. Chen  
Serial No.: 10/777,940 Art Unit: N.A.  
Filed: February 11, 2004 Examiner: N.A.  
Assignee: Olin Corporation Conf. No.: N.A.  
Title: Laser Ablation Resistant Copper Foil

Certificate of Mailing

Date of Deposit May 20, 2004.

I hereby certify under 37 CFR 1.8(a) that this correspondence (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signed: 

Name: Gregory S. Rosenblatt

**INFORMATION DISCLOSURE STATEMENT TRANSMITTAL LETTER**

Mail Stop Non-Fee Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, please find enclosed an Information Disclosure Statement, Form PTO-1449 and one copy of each cited reference. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.

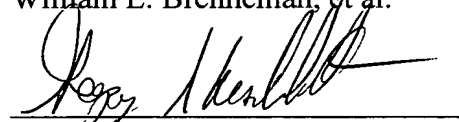
- ☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.
- ☐ a. Each item of information contained on Form PTO-1449 filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(1); and no fee is required under 37 C.F.R. §1.17(p).
- ☐ b. No item of information cited on Form PTO-1449 filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(2); and no fee is required under 37 C.F.R. §1.17(p).
- ☐ Please charge Deposit Account No. 23-1665 in the amount of \$180.00 in payment of the fee under 37 C.F.R. §1.17(p). Two additional copies of this Information Disclosure Statement are enclosed.
- ☐ A check in the amount of \$180.00 is attached hereto in payment of the fee under 37 C.F.R. §1.17(p).
- ☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. It is hereby requested that the Information Disclosure Statement be considered.
- ☐ a. Each item of information contained on Form PTO-1449 filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(1).

- ☐ b. No item of information cited on Form PTO-1449 filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).
- ☐ Please charge Deposit Account No. 23-1665 in the amount of \$180.00 in payment of the fee under 37 C.F.R. §1.17(p). Two additional copies of this Information Disclosure Statement are enclosed.
- ☐ A check in the amount of \$180.00 is attached hereto in payment of the fee under 37 C.F.R. §1.17(p).

The undersigned represents that the closest art of which he is presently aware has been cited herein and understands that this statement shall not be construed as a representation that no better art exists or that a thorough patentability search has been made.

The undersigned further represents that the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

Respectfully submitted,  
William L. Brenneman, et al.



Gregory S. Rosenblatt  
Reg. No. 32,489

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Serial No.:	10/777,940	Art Unit:	N.A.
Filed:	February 11, 2004	Examiner:	N.A.
Assignee:	Olin Corporation	Conf. No.:	N.A.
Title:	Laser Ablation Resistant Copper Foil		

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Signed: 

Name: Gregory S. Rosenblatt

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Mail Stop Non-Fee Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In keeping with the duty of candor and good faith owed to the Patent and Trademark Office, Applicant wishes to make of record the items on attached PTO Form 1449. Copies of the items are provided in accordance with 37 CFR 1.98.

These items were cited in a PCT Search Report for international patent application PCT/US03/38592 that was mailed on April 8, 2004. This application corresponds to parent US patent application 10/727,920. A copy of the PCT Search Report is enclosed.

US 5,338,619 by Fukuda et al., issued August 1994.

US 5,389,446 by Yamanishi et al., issued February 1995.

The remaining items on Form PTO-1449 were considered during the preparation of the present patent application.

The undersigned represents that the closest art of which he is presently aware has been cited herein or in the previously submitted Information Disclosure Statement(s) and understands that this statement shall not be construed as representation that no better art exists or that a thorough patentability search has been made.

Respectfully submitted,  
William L. Brenneman, ET. AL.



Signature of Attorney  
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Date: May 20, 2004  
Reg. No. 32,489

OIPE JC186  
 MAY 24 2004  
 PATENT & TRADEMARK OFFICE

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT No.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPR.
	3461048	08/69	Mahlstedt et al.	204	41	
	3518169	06/70	Oyama et al.	204	35	
	4387006	06/83	Kajiwara et al.	204	32	
	4468293	08/84	Polan et al.	204	27	
	4515671	05/85	Polan et al.	204	228	
	5022968	06/91	Lin et al.	204	28	
	5071520	12/91	Lin et al.	205	155	
	5164235	11/92	Chao	427	436	
	5234573	08/93	Takami	205	155	
	5338619	08/94	Fukuda et al.	428	623	
	5389446	02/95	Yamanishi et al.	428	472	
	5534128	07/96	Aso et al.	205	176	
	5800930	09/98	Chen et al.	428	607	
	5885436	03/99	Ameen et al.	205	194	
	6132589	10/00	Ameen et al.	205	177	

## FOREIGN PATENT DOCUMENTS

[illegible]

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

Rauch, Jr. et al., "A Study of Surface Chromium on Tinplate", Journal of the Electrochemical Society, Vol. 120, No. 6, June 1973, pages 735-738.

Becker, "Surface Chromium on Chromate Treated Tin Plate", Journal of the Electrochemical Society, Vol. 117, No. 9, September 1970, pages 1211-1215.

Britton, "Electrochemical Assessment of Chromium in Passivation Films on Tinplate", British Journal of Corrosion, Volume 1, November 1965, pages 91-97.

Institute for Interconnecting and Packaging Electronic Circuits, IPC-TM-650 – Test Methods Manual.

EXAMINER:

DATE CONSIDERED:

\* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.